

A Survey of the Uto-Aztecan Language Luiseño

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1 Introduction

Luiseño is spoken by about some tens of people in a south-west to north-east region midway between Los Angeles and San Diego, California. The speakers have no name for themselves nor for their language. Hyde, a native speaker, calls the language 'Indian' in her textbook [lit.ref. 1], and the tribe is called Luiseño after the then mission at San Luis Rey de Francia.

Luiseño belongs to the Takic branch of the Uto-Aztecan language family. There are no other well-known languages in the same branch, but well-known other Uto-Aztecan languages are Paiute, Shoshoni, Hopi and Aztec, the last with about 1 million speakers in Mexico. All Uto-Aztecan languages are so closely related that the relationship is obvious to the layman; Luiseño and Hopi may differ no more than English and German.

There is considerable historical material on Luiseño. An early grammar was written around 1840 by a native Luiseño neophyte, Pablo Tac, who had travelled to Rome, Italy, where he worked on the grammar until his death at the early age of 19. A very extensive grammar was composed around 1900 by Philip S. Sparkman, an English storekeeper near Rincón, Calif. The examples from this grammar were verified in 1909 by A. Kroeber [lit.ref. 2], who published the results in 1960(!).

2 General structure

Luiseño is relatively simple as American Indian languages go. It has no tone/pitch, no ergativity and no incorporation, and is vaguely reminiscent of Latin, to which it is certainly more similar structurally than to Navaho, for example.¹ It has a moderately large and moderately irregular set of inflections for nouns, adjectives and verbs, and has a fairly straightforward sentence structure. It has no gender distinction, not even for the personal pronouns: **wunaal** = *he, she, it*. Like Latin and Russian, it has no equivalent of 'the' or 'a': **hunwut** = *the bear, a bear*. It distinguishes between singular and plural, though: **hunwutum** = *the bears, bears*.

A sample sentence is (from Hyde):

Xwanita po-na **'aamo-quš**;
Juanita (his/her)-father hunt-(progressive-past) = *Juanita's father went hunting*;

wunaal 'aamo-kat polooov,
he hunt-er good = *he was a good hunter*,

pi weh-chum-i toos/achit-um-i yawa'na.
and two-plural-obj. rabbit-plural-obj. caught-(punctual-past) = *and caught two rabbits*.

A characteristic feature of Luiseño is the strict distinction between animate and inanimate nouns; different declensions and even different sets of endings are available for each. Another is the use of sentence-identifying particles. These particles (small words) repeat the subject, verb tense and possibly some other information about the sentence. An example is

¹This is not to imply that there is some real relationship between Luiseño and Latin. Structural similarity is no proof nor even an indication of relationship; Quechua (Central South America) and Hungarian (Central Europe) are structurally very similar and it is obvious that no close relationship can exist between these languages.

noo-n-il 'aamo-quʒ
 I-I-(progressive-past) hunt-(progressive-past) = *I was hunting*,

in which the -n- repeats the subject and the -il predicts the verb ending -quʒ. Sentence particles are explained in a separate section below.

3 Phonetic features

Luisseño has five vowel sounds, a, e, i, o and u, each pronounced as in Spanish or Italian. In addition, each vowel can be short or long; long vowels are written twice: aa to uu (but see below). Some Luisseño do not distinguish between short unstressed e and i, and pronounce a very short in-between vowel; the same applies to short unstressed o and u.

Most of the Luisseño consonants are pronounced more or less as in English: ch, h, k, l, m, n, p, r, s, sh, t, v, w and y. The sh and ch are variants of the same phoneme: sh is used before consonants and at word end and ch before vowels. In addition, Luisseño has six sounds that require some explanation:

' The 'glottal stop'. This is the 'break' in the middle of the English exclamation 'Oh'oh!' and the London pronunciation of 'water' as *wo'a*. It occurs as the first sound of words that seem to start with a vowel, and can occur at the end of a word: 'aw' = *to live*.

ng Pronounced as the *ng* in the E. *singer* (not as in *finger*). It can also occur at the beginning of a word: *ngooyax* = *to wake up*.

q A *k*-like sound made further back in the throat; this is the Arabic *qof*.

ʒ A retroflex *s*. It can be produced as follows. Start by saying the *ir* in *bird* in American pronunciation (with retracted tongue). Now stop saying the *ir* and, without moving mouth, tongue or jaw, say an *s*. The dull *s* you are now producing is close to the Luisseño ʒ.

th This is the voiced *th* in the English *this*, not the voiceless *th* in *think*.

x Pronounced as the *ch* in Scottish *loch*.

The difference between voiced and voiceless consonants plays no role in the language: there are no *b*, *d* or *g* to contrast with *p*, *t* and *k*, and there is no *f* to contrast with *v*, nor is there a *z*, although there is an *s*.

Stress can almost always be predicted, as it falls normally on the first syllable of the stem of a word: *po-na* = *her-father*, 'aamo-quʒ = *was hunt-ing*. But since one has to know the word to know what its stem is, stress is indicated by underlining in all multi-syllable Luisseño words.

In this survey we use the Hyde orthography for Luisseño. It makes the different written forms of a word more similar by using three phonetic rules:

1. A stressed vowel is pronounced short when it is followed by two consonants, regardless whether it is written single or double. Example: ʒuuktumi = *deer (plural, object)* is pronounced ʒuktumi but written with a double u because the dictionary form ʒuukat = *deer (singular)* is pronounced with a long u.
2. A stressed vowel is pronounced long when it is followed by one consonant and one vowel, regardless whether it is written single or double. Example: We write huula = *arrow* with a double u because the possession form nohuu = *my arrow* is pronounced with a long u, but we write yula = *hair*, which is pronounced with a long u because of the given rule, because the possession form noyu = *my hair* has a short u. This is comparable to German writing *Pferd* = *horse* with a *d* at the ending in spite of the pronunciation *pfeert*, because the plural *Pferde* = *horses* is pronounced with a *d*: *pfeerde*.
3. A stressed short vowel at the end of a word is always followed in the pronunciation by a glottal stop ' ; this glottal stop is not written. Example: although noyu = *my hair* is pronounced noyu' , we do not write the ' , because the dictionary form yula has no glottal stop.

Example of the combined rules:

Written form	meaning	pronounced	rule
k <u>i</u> cha	house (subject)	k <u>i</u> cha	Rule 2, because ch is a single consonant
k <u>i</u> sh	house (object)	k <u>i</u> sh	regular
n <u>o</u> k <u>i</u>	my house (subject)	n <u>o</u> k <u>i</u> '	Rule 3

We see that in spite of the different pronunciations, the orthography shows clearly that the invariable stem of the word is *ki*.

4 Nouns

Most inanimate nouns end in *-cha*, *-ta* or *-la*, and most animate nouns end in *-sh*, *-t* or *-l*, although there are many exceptions to this classification. Note that again *ch* before a vowel corresponds to *sh* at word end. The above endings are real endings and drop off in other forms, as we have seen in the above example, in which *kicha* = *house* loses its ending *-cha* in *noki* = *my house*.

4.1 Singular

Animate nouns have two forms, one generally used as a subject (marked *-(S)* in this text) and the other in other situations; we shall call the latter form the ‘object form’ (marked *-(O)*), although it is also used for other purposes. The usage is similar to English ‘I’ being used exclusively as a subject, whereas ‘me’ is used as an object and after prepositions: ‘with me’. The object form is made by adding *-i* to nouns ending in a consonant and *-y* to those ending in a vowel:

'*awaal* = *the dog-(S)*
 '*awaali* = *the dog-(O)*

For inanimate nouns, the situation is more complicated. Inanimate nouns have six forms, which might be called ‘cases’, depending on your definition; in addition to that, the object form is normally not formed by adding *-i* but by dropping the final vowel if they have one (that is, if they end in *-cha*, *-ta* or *-la*), or by not changing at all, if they have no final vowel. The regular declension endings and the regular declension for inanimate nouns ending in *-cha* are:

Regular ending	Example word	Meaning
<i>-(cha/ta/la)</i>	<i>kicha</i>	<i>the house-(S)</i>
<i>-(sh/t/l)</i>	<i>kish</i>	<i>the house-(O)</i>
<i>-yk</i>	<i>kiyk</i>	<i>for/to the house</i>
<i>-nga</i>	<i>kinga</i>	<i>in/on/at the house</i>
<i>-ngat</i>	<i>kingay</i>	<i>from the house</i>
<i>-tal</i>	<i>kichal</i>	<i>with/by means of the/a house</i>

Many words, however, are slightly irregular, and although dozens of additional rules exist which can make the irregularities disappear, good Luiseño word lists give the subject form, the object form and one of the other forms for each noun.

The relations ‘for/to’, ‘in/on/at’ and ‘from’ for animate nouns are formed with pronouns (explained below):

Xwanita poyk
Juanita her-for = *for Juanita*.

Relations other than ‘for/to’, ‘in/on/at’, ‘from’ and ‘with’, for which English uses prepositions, are expressed using the above forms of special nouns that express those relations. For example, ‘next to John’ is rendered as *Xwaan-i po-haylo-nga* = *John-(O) his-side-at* = *at John’s side*; likewise *no-haylo-nga* = *my-side-at* = *next to me*. For inanimate objects, which cannot really possess something, the location ending is repeated on the noun: *kinga pozuunga* = *house-in its-heart-in* = *inside the house*.

Although subject and object are generally used in the same way as *I* and *me* in English, this is not always the case. An example of a use of the difference between the subject and the object form that has no equivalent in English is: *cho'on temet-i* = *all/every day-(O)* = *every day* versus *cho'on temet* = *all/every day-(S)* = *all day*.

4.2 Plural

The regular plural of nouns is formed by adding *-um*, or *-m* after vowels, regardless of animicity: '*awaalum* = *(the) dogs*, *kicham* = *(the) houses* (long *i*). Some other ways of forming a plural exist, especially those using reduplication: *nawitmal* = *girl*, *nanatmalum* = *girls* (long *a*).

The object ending *-i* is added regularly to the plural form of animate nouns:

Eng. subj.	I	you	he/she/it	we	you all	they
Eng. obj.	me	you	him/her/it	us	you all	them
...-(S)	n <u>oo</u>	' <u>om</u>	w <u>unaal</u>	cha <u>am</u>	' <u>omom</u>	w <u>unaalum</u>
...-(O)	n <u>oy</u>	' <u>oy</u>	p <u>oy</u>	cha <u>ami</u>	' <u>omoomi</u>	p <u>opoomi</u>
to/for ...	n <u>eyk</u>	' <u>oyk</u>	p <u>oyk</u>	cha <u>amik</u>	' <u>oomik</u>	p <u>oomik</u>
in/with ...	n <u>ooto</u>	' <u>ooto</u>	p <u>ooto</u>	cha <u>amoto</u>	' <u>oomoto</u>	p <u>oomoto</u>
from ...	n <u>oongay</u>	' <u>oongay</u>	p <u>oongay</u>	cha <u>amongay</u>	' <u>oomongay</u>	p <u>oomongay</u>

Figure 1: Forms of the pronouns

'awaalum = *the dogs-(S)*
 'awaalumi = *the dogs-(O)*

but for inanimate nouns plurality is normally only expressed in the subject form; for all other forms the singular is used instead of the plural:

kicham = *the houses-(S)*
 kish = *the houses-(O)*
 kiyk = *for the houses*
 kinga = *in the houses*
 kingay = *from the houses*
 kichal = *with the houses*

4.3 Adjectives and adverbs

Adjectives are declined just like (animate) nouns:

hunwut paapavish = *a thirsty bear-(S)*
 hunwuti paapavichi = *a thirsty bear-(O)*
 hunwutum paapavichum = *thirsty bears-(S)*
 hunwutum paapavichumi = *thirsty bears-(O)*

They can come before or after the noun they modify:

gatu yot = yot gatu = *a big cat*

(gatu is borrowed from Spanish). Yot = *big* has a different plural: momkatum (but it still ends in -um):

gatum momkatum = *big cats*.

They get animate endings even with inanimate nouns: yoti kish = *a big house-(O)*, and also get the other case endings: yongay kingay = *from the big house*.

Adverbs are made by taking the object form of an adjective: alaxwush = *bad*, alaxwuchi = *badly*.

4.4 Pronouns

The pronouns exist in the five forms shown in Figure 1. The ending -nga = *in, on, at* is not used with pronouns; instead there is an ending -to = *with, in*. The meaning of the ending -tal/-chal = *by means of ...* does not lend itself to be used with pronouns: 'by means of me' is not a reasonable thing to say, and the corresponding forms do not exist. The acceptable form 'by means of it' is rendered as 'asuuntal, which derives from a stronger word for 'it': 'asuun = *it, itself*.

4.5 Possession forms

We have already seen that possession, which is expressed in English by the possessive pronouns 'my', 'your', 'our', etc., is shown in Luiseño by prefixes which look somewhat like the normal pronouns:

noki = *my house*
 'oki = *your house*
 poki = *his/her/its house*
 chamki = *our house*
 'omki = *your (plural) house*
 pomki = *their house*

Object and plural endings are added normally to these forms: **nokiy** = *my house-(O)*, **chamkim** = *our houses-(S)*. The third-person forms are used to construct forms like **nawitmal pona** = *the-girl her-father = the girl's father*.

Again a number of small irregularities exist; for example, the word **paala** = *water* has the object form **paal** (regular) but the possession form **popaaw** = *his water*. (Note that **paala** = *water* is related to **paapavish** = *thirsty (water-wanting)*, which is why the latter is written with a double a.)

These forms describe a fairly intimate ownership; if the relationship is much looser, the ending **-ki** is added: **no-ta** = *my-sinew (in my body)*, **no-taki** = *my-sinew (for the bow I am making)*. If, on the other hand, the relationship is very close and unbreakable, as in family relations, the forms without **-ki** are used, but the stand-alone word does not exist: **noyo** = *my mother*, but no stand-alone word for 'mother' exists.

Special forms are used for possessing animals; in this case words that look directly equivalent to English possessive pronouns are used:

no'aash 'awaal = *my dog*,

but the actual meaning of **no'aash** is 'my animal', so the whole expression means literally: 'my animal, the dog'. The object form is of course **no'aachi 'awaali** = *my dog-(O)* and the plural **no'aachum 'awaalum** = *my dogs-(S)*.

5 Verbs

There are two large groups of regular verbs, one ending in **-i** and the other in **-ax**, and a much smaller group of irregular verbs. Most of the verbs in **-i** are transitive (that is, they can have an object (which is also often marked by **-i!**)); those in **-ax** are mostly intransitive. They often come in pairs:

pithi = *to break (something)*
pithax = *to break (by itself), get cracked*

The verbs in **-ax** lose their **x** before endings that start with **k** or **q**. Examples of irregular verbs are:

'aw' = *to live*
paaw = *to fetch water (from paala = water)*

Verbs are not conjugated for person; that is, there are no such form changes as in 'I am', 'you are'. But some forms differ for a plural subjects from those for a singular subject. Some verbs even have completely different forms for singular and plural subject:

howa = *to lie down (alone)*
masa = *to lie down (in a group)*
noo howaq = *I am lying down*
cham masaan = *we are lying down*

5.1 Tenses

Rather than just distinguishing past, present and future, Luiseño has seven 'tenses', two of which differ for singular and plural. Since the use of the tenses is closely interwoven with the sentence particles, these are also given in the following table.

Period	Approximate translation	Sentence particle	Regular ending (sing./plural)
regularly in the past	used to ...	–	–uk
during some time in the past	was ...ing	[–il]	–quś
once in the past	...-ed	–	see text
present and recent past	is/was ...ing	–	–q/–wun
immediate future	is going to ...	–	–lut/–kutum
remote future	will ...	–po	–an
any time	[always]	–	–ma

The particle **–il** with the progressive past is optional, **–po** with the remote future is mandatory.

The 'once in the past' form ('punctual past') is formed in many different ways. Regular verbs in **–i** lose the **–i** and add **–ax** or **–yax**; those in **–ax** lose the **–ax** and add **–'ya**. With verbs ending by themselves in **–'ax**, removing the **–ax** and adding **–'ya** leads to an interesting phenomenon, a double (long) glottal stop:

nawitmal yi'yik	= the girl used to play
nawitmal-upil yi'yiquŝ	= the girl was playing
nanatmalum-mil yi'yiquŝ	= the girls were playing
nawitmal-upil yi'yax	= the girl played
nawitmal-up yi'yiŋ	= the girl is playing
nanatmalum-pom yi'yiŋ	= the girls are playing
nawitmal-up yi'yilut	= the girl is going to play
nanatmalum-pom yi'yikutum	= the girls are going to play
nawitmal-po yi'yin	= the girl will play
nawitmal yi'yima	= the girl plays all the time
nawitmal-po yi'yimaan	= the girl will play all the time

Figure 2: Examples of tenses

hati'ax = to go
 hati'ya = went

The punctual past of irregular verbs is often very irregular indeed. For example, the punctual past of *paaw* = to fetch water is *pa'aw* = fetched water.

The 'present and recent past' form designates roughly everything that has happened today. If one wants to emphasize that the action is happening at this very moment, one can add the word *pitoo* = now.

Examples of the use of verb forms (with *yi'yi* = to play and *nawitmal* = girl) are given in Figure 2.

The present tense of the verb *miix* = to be, to exist is not used with adjectives in the present:

no'aash 'awaal poloov = my dog [is] good

but it is used in the other tenses:

no'aash 'awaal poloov miiquŝ = my dog was good
 no'aash 'awaal poloov miixlowut = my dog is going to be good

(*miix* is one of the many verbs that have *-lowut* rather than *-lut* in the future. This is the kind of irregularities Luiseño abounds with.)

5.2 Infinitives

Although we have used infinitives such as *yi'yi* = to play as if they were words by themselves, they can actually only occur as a possession form: *noyi'yi* = my playing. Such forms can then be used in sentences like

noo pilachax noyi'yiy
 I learned my-playing-(O) = I learned to play.

A closer combination is found with the verb *-vota* = to be able to:

noo noyi'yi-votaŋ
 I my-playing-can = I can play.

There is also a future infinitive, ending in *-pi*: *noyi'yipi* = my going to play. An example of its use is:

wunaal yaa noyi'yipi
 he ordered my-going-to-play = he told me to go and play

Below we shall meet examples of the use of the past infinitive: *noyi'yivo* = my having played.

A remarkable use of the infinitive is found in words that mean 'liking' or 'hating'. Taking our examples with the verb *ma'max* = to like, we have

noo-up Xwaani no-ma'max --
 I-it John-(O) my-liking is = I like John

in which the 'is' is left out, as described above. It should be pointed out that the subject of this sentence is *no-ma'max* = my-liking, as shown by the sentence particle *-up*, which says that the subject

is third person singular. The *noo* = *I* is there to focus the attention, as in the French *Moi, je l'aime* = *I, I like him*. A part of Steele's book [lit.ref. 3] is concerned with explaining such forms.

The past of the above sentence is

noo-upil Xwaan *no-ma'max miiqu* = *I liked John*
 I-(it-past) John-(O) my-liking was-existing

In these forms the infinitive acts as a real noun in that it gets a plural ending when the object is plural:

noo-pum 'awaalumi no-ma'maxum miixkutum
 I-they dogs-(O) my-likings are-going-to-be = *I'm going to like dogs*

in which the infinitive *no-ma'maxum* = *my-likings* is plural, because several dogs need several likings, and the verb *miixkutum* = *are going to be* is plural because its subject, the 'likings', are plural. Note that this third person plural subject was predicted by the sentence particle *-pum*, rather than the the first person singular subject that the English translation employs.

5.3 Gerunds

A gerund is a form derived from a verb that describes the circumstances in which the action of the sentence takes place. An example from English would be: 'Having finished, he went home', in which 'having finished' describes the circumstances. Luiseño has several of such forms and uses them amply. One of them ends in *-nik* and expresses something that happened *before* the action in the sentence:

'awaali tiiwinik, noo ya'anax = *when I saw the dog, I ran away*
 dog-(O) having-seen, I ran-way

Another ends in *-qal* (object *-qala*) and designates something that is still going on:

Xwaan tiiwin Mariyay po-lo'xa-qala
 John saw Maria-(O) her-cooking-while-(O) = *John saw Mary while she was cooking*

5.4 Agent nouns

Agent nouns are nouns, derived from verbs, which designate persons or things that do what the verb indicates. An example from English is 'dancer' from 'to dance'. Luiseño has the same possibility, *pellikat* = *dancer* from *pellax* = *to dance*, which means somebody who dances habitually or for a profession. But Luiseño has such agent nouns also for past, present and future:

pellax-mokwish = *he/she who danced*
pella-qat = *he/she who dances*
pellax-lut = *he/she who will dance*

Each of these of course comes with an object form, for example: *pellaqati* = *him/her who dances*; and with a plural: *pellaqatum* = *they who dance*. An example is (cf. French *C'était moi qui dansait*):

noo-n po pellax-mokwish
 I-I he/she he/she-who-danced = *I am the one who danced*

These forms are used in particular to express what is expressed by relative sentences in English, as explained below.

6 Sentence particles

Sentence particles identify and summarize the sentence; they occur in one cluster and always find their place after the first unit in the sentence, to which they are usually attached. They are very vaguely reminiscent of the English usage of 'however', 'of course', etc., which also say something about the sentence and also come in second position (as in: 'The director, however, decided otherwise').

There are four kinds of particles, which should appear in order:

- Possibly some sentence characterizer, for example:

-su = *question*
-xu = *obligation*

- possibly followed by a particle that indicates ‘hearsay’:

-kun = ..., *I am told*

- followed by some indication of the subject, for example:

-n = *I*
 -pum = *they*

- possibly followed by some particle predicting the verb tense, for example:

-po = *future*
 -ku = ... *but it did not happen*

If the particle cluster is present at all, it always contains the subject indication; the other items are optional. If the particle cluster is so small that it has no vowel, a vowel is just added:

Looviq-an = *I'm fine*
 (Is-fine)-I

Many of these particles contract with their partners in the particle cluster, and Luiseño grammars contain tables of these. Full treatment of all 70 combinations that are possible, with examples, is supplied by Steele [lit.ref. 3].

Some examples are:

Noo-nil yi'yiquš. = *I was playing.*
 I-(I-past) was-playing

Chaami-upil poyo moyooniquš. = *Her mother fed us.*
 Us-(she-past) her-mother was-feeding

Wunaalum šum takwayaan 'exngay? = *Will they be sick tomorrow?*
 They question-they be-sick-will tomorrow?

Qay šush yi'yin? = *Won't we play?*
 Not question-we play-will?

Note that the last sentence contains no pronoun ‘we’; the sentence particle *šush* (derived from *-šu* = *question* and *-ch-* = *we*) says it all.

Negation is not expressed by such a particle but by a separate word, *qay* = *not*:

chaam-xush-po qay tooyaxma = *we must not laugh*
 we-obligation-we-future not laugh-anytime

Qay also means ‘no’; ‘yes’ is *ohii*.

The fourth-position particle *-ku* = *but-it-did-not-happen* can also be used in the above phrase, with an unexpected but logical meaning:

chaam-xush-ku qay tooyaxma = *we should not have laughed*
 we-obligation-we-did-not-happen not laugh-anytime

Here the obligation that did not happen implies that we did laugh where we should not have done so; hence the meaning.

7 Syntax

Word order is free, more or less as in Latin, provided the sentence particle comes after the first unit; furthermore there is a tendency not to have the verb as the first unit (unless there is nothing else in the sentence).

There are several ways to express conditions. A way to state general truths is:

'om 'iviy paal paa'ima, pi 'om takwayaxmaan
 you this-(O) water-(O) drink-anytime, and you be-sick-anytime-will
 = *if you drink this water, you will get sick*

The particle *-xu* described above can also serve:

noo-xunpo samsa, pe 'alaxwush = *I would buy it, but it is bad*
 I-(would-I-future) buy, but bad

Obligation can also be expressed using the -xu-po particle cluster:

Ya 'ash-xupo po 'aashmi 'awaalumi kwaavichu.
 Man-(would-future) his-animals-(O) dogs-(O) take-care-of
 = *The man should take care of his dogs.*

or by the use of the future infinitive:

Noo-upil nongeepi miiquʒ. = *I had to leave.*
 I-(it-past) my-going-to-leave was-existing

7.1 Relative clauses

A relative clause is a subsentence that says something about a noun in the main sentence. An example from English is: 'The girl who made a tortilla for me is pretty', in which the part 'who made a tortilla for me' is the relative clause. More precisely, it is a *subjective* relative clause, because the noun in the main sentence ('the girl') is the subject of the relative clause. Subjective relative clauses about people start with 'who' (or 'that') in English. Luiseño uses agent nouns (see above) for subjective relative clauses:

Nawitmal po neyk ʒaawokish lovi'imokwish yawaywish
 Girl-(S) who-(S) me-for tortilla-(O) she-who-made-(S) pretty
 = *The girl who made a tortilla for me is pretty*

in which po corresponds to the English 'who'. If the noun together with the relative clause figures as an object in the main clause, the noun, the 'who' and the agent noun, all get object markers; the object form of po is poneeyi for animate nouns.

Noo 'ayaliq nawitmali poneeyi neyk ʒaawokish lovi'imokwichi
 I know girl-(O) who-(O) me-for tortilla-(O) she-who-made-(O)
 = *I know the girl who made a tortilla for me*

In objective relative clauses, the 'who' is the object, and in English takes the form 'whom' (or 'that' or is left out). Luiseño uses possession forms of infinitives to express this:

Nawitmal po no'ayalivo yawaywish miiquʒ
 Girl-(S) who-(S) [is] my-having-known-(S) pretty was-being
 = *The girl that I knew was pretty*

We see that 'I' is not the subject of the relative clause as it is in English; it is rather the possessor of the infinitive. Again, if this whole form is the object in the main clause, the noun, the 'who' and the infinitive all get object markers:

'Awaal ko'yax nawitmali poneeyi no'ayalivoi
 Dog-(S) bite-(punctual-past) girl-(O) who-(O) [is] my-having-known-(O)
 = *The dog bit the girl that I knew*

Of course all these forms exist for present, past and future, and, for inanimate nouns, in all other cases.

8 Numerals

Luiseño has only five numerals:

supul = *one*
 weh = *two*
 paahi = *three*
 wasaa' = *four*
 mahaar = *five*

The last of these is borrowed from the closely related language Gabrielino; Luiseño words do not normally end in -r. Descriptive phrases are used for the other numbers, for example:

noma tapaxot wewun = *ten*
 my-hand(s) finished both

These are the stand-alone forms; when the numerals are used together with nouns, those over one get plural endings (albeit irregular ones), like all other nouns and adjectives in the language:

wehchumi toogachitumi
two-plural-(O) rabbit-plural-(O) = *two rabbits-(O)*

9 References

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